

WHAT IS CLAIMED IS:

1. A polysiloxane resin comprising (a1) a siloxane unit containing an alkali-soluble group, and (a2) an arylsilsesquioxane unit containing an alkali-insoluble group, said alkali-insoluble group having no acid-decomposable group.

2. A polysiloxane resin according to claim 1, wherein the alkali-soluble group of said siloxane unit (a1) is at least one of hydroxyl group and carboxyl group.

3. A polysiloxane resin according to claim 2, wherein, in said siloxane unit (a1), the alkali-soluble group is bonded to the silicon atom of a siloxane group through at least one group selected from the group consisting of alkylene groups, cycloalkylene groups and aralkylene groups.

4. A polysiloxane resin according to claim 3, wherein said siloxane unit (a1) is a hydroxybenzylsilsesquioxane unit.

5. A polysiloxane resin according to claim 1, wherein said siloxane unit (a2) is a phenylsilsesquioxane unit.

6. A polysiloxane resin according to claim 1, wherein a molar ratio of the unit (a1) to the unit (a2) is from 1:9 to 9:1.

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7. A polysiloxane resin according to claim 1, wherein the resin has a weight average molecular weight of from 1000 to 100000.